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XCMG OFFICIAL WEBSITE



XCMG SERVICE ACCOUNT



XZ Series Horizontal Directional Drilling Rig



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Company Profile

XCMG is a pioneer, founder, and leader in China's construction machinery industry with unique competitive edge and global influence, achieving a market value exceeding 100 billion RMB and ranking among the world's leading brands. XCMG consistently leads in domestic industry indicators, has maintained a global leadership position for many years, and is listed in the "World's 500 Most Influential Brands." It is also included in the Fortune China 500 and Forbes China's Top 30 Go-International Brands. These achievements cement its leadership in the domestic industry. XCMG leads the global market in piling machinery, with over 10 major product categories continuing leading the global market, and 16 categories holding the No. 1 position in China. XCMG products are sold to over 190 countries and regions, with coverage of the Belt and Road Initiative countries exceeding 95%, solidifying its role as a key player in China's global equipment manufacturing industry.

XCMG Foundation Construction Machinery Business Division is one of the five pillar sectors of XCMG, and is divided into XCMG Foundation Construction Machinery Co., Ltd. and XCMG Energy Equipment Co., Ltd. It focuses on the research, development, manufacturing and sales of piling machinery, trenchless machinery, underground mining machinery, tunnel engineering machinery, and resource drilling & production machinery, as well as construction method technical support, engineering construction and other full value chain activities to provide customers with comprehensive solutions. It accelerates the

network connection of intellectualized reconstruction and digital transformation, and has built a thousand-mu new base for intelligent manufacturing with production lines such as intelligent blanking, drilling mast assembly, and human-machine collaborative assembly of longitudinal beams to form a world-class industrial cluster for foundation construction machinery. The enterprise has been awarded honors such as National High-tech Enterprise and Single Champion Demonstration Enterprise in Manufacturing Industry.

At present, XCMG trenchless machinery ranks first in the world and the piling machinery is in the first class; roadheaders, drill jumbos, deep well drilling rigs and other products have leapt to the forefront of China market. XCMG Foundation closely centers on the internationalization strategy, localizing marketing channels, services and spare parts, adapting product development, and synchronizing sales, leasing and overhaul as well. Its various types of products have been exported to more than 80 countries and regions.

Global Agents	National Marketing Outlets	Global Service Outlets	Local Service Engineers
650+	3,671	5,600+	20,000+





- The small tonnage drilling rig is mainly used in the field of municipal pipe network construction.
- The equipment adopts integrated design, has small size, and is flexible in construction and convenient for transportation.
- The drilling rig can be equipped with a variety of functional components to meet diverse needs.

Main technical parameters		Unit	XZ130E	XZ180E	XZ230E	XZ320E	XZ360E	XZ360EPLUS	XZ430E	XZ450PLUS	XZ480EPLUS
Engine		/	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	shangchai
Rated power		kW	81	96	113	154	154	154	179	194	206
Power head	Max thrust-pull force	kN	135	180	230	345	380	720	430	900	960
	Max thrust-pullspeed	m/min	40	45	55	36	40	40	48	50	55
	Torque	N·m	3200	4600	7000	12600	13200	13200	18500	23500	27000
	Max rotation speed	r/min	230	200	190	140	140	135	175	135	140
Mud pump	Max flow	L/min	100	180	250	320	400	400	450	600/800	600/800
	Max pressure	MPa	4	8	8	8	8	8	8	8	8
Recommended drill pipe		mm×m	φ 52×1.8	φ 60×2	φ 60×3	φ 73×3	φ 73×3	φ 83×3	φ 83×3	φ 89×4.5	φ 89×3/4.5
Max entry angle		°	18	18	20	20	20	20	20	20	20
Max back reaming diameter		mm	φ 400	φ 500	φ 600	φ 700	φ 800	φ 800	φ 900	φ 1000	φ 1000
Weight		t	5	5.5	9	10	10	11	12	14.5	14
Outline dimensions		mm	4200×1680×2170	4500×1800×2170	6100×2230×2450	6100×2280×2450	6200×2280×2450	6200×2280×2450	6500×2250×2450	8800×2280×2640	7500×2280×2640
Optional items	Automatic pipe loader		○	○	○	○	○	○	○	○	▲
	Semi-automatic gripper		▲	▲	▲	○	○	○	●	○	●
	Automatic double anchor		○	○	○	○	○	○	○	○	○
	Mud cleaning (water gun)		●	●	●	●	●	●	●	▲	▲
	Automatic thread oil daub		○	○	○	○	○	○	○	○	○
	Cab with AC		▲	▲	○	○	○	○	○	●	●
	Mud antifreeze		○	○	○	○	○	○	○	○	○
	Wireless walking		○	○	○	○	○	○	○	○	●

●standard标配 ○optional选配 ▲not available不适配

Medium Tonnage Horizontal Directional Drilling Rig



- The medium-tonnage drilling rig can be used in municipal engineering, and can also be used to construct some oil and gas pipelines and in hard rock construction conditions.
- The medium-tonnage drilling rig is equipped with cab and auxiliary crane as standard.

Main technical parameters		Unit	XZ500E	XZ600F	XZ800F	XZ1000F	XZ1350F	XZ1600F
Engine		/	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Rated power		kW	194	194	220	242	264	264
Power head	Max thrust-pull force	kN	500	600	800	1000	1350	1750
	Max thrust-pull speed	m/min	55	55	55	45	45	45
	Torque	N · m	27000	31000	35000	42000	48000	52000
	Max rotation speed	r/min	140	140	120	120	100	100
Mud pump	Max flow	L/min	600/800	600/800	600	800	800/950	800/950
	Max pressure	MPa	10	10	10	10	10	10
Crane	Lifting weight	t	2	2	2	2	2	3.2
	Lifting moment	t · m	4	4	4	4	4	6.4
Recommended drill pipe		mm × m	Φ89 × 3/4.5	Φ89 × 4.5	Φ 102 × 4.5	Φ114 × 6(NC38)	Φ 114/Φ 127 × 6	Φ 114/Φ 127 × 6
Max entry angle		°	20	20	20	20	18	18
Max back reaming diameter		mm	Φ 1000	1000	1200	Φ 1300	Φ 1300	Φ 1300
Weight		t	14.5/15.5	16	18	19	25	27
Outline dimensions		mm	7500/8800 × 2280 × 2610	9000 × 2450 × 2610	10650 × 2450 × 2640	11680 × 2710 × 3300	11680 × 2760 × 3550	11700 × 2760 × 3550
Optional items	Mud antifreeze		○	○	○	○	○/▲	○/▲
	Semi-automatic gripper		●	●	●	●	○	○
	Wireless walking		●	●	●	●	●	●
	Power boost		○	○	○	○	○	▲

● standard ○ optional ▲ not available

Large Tonnage Horizontal Directional Drilling Rig

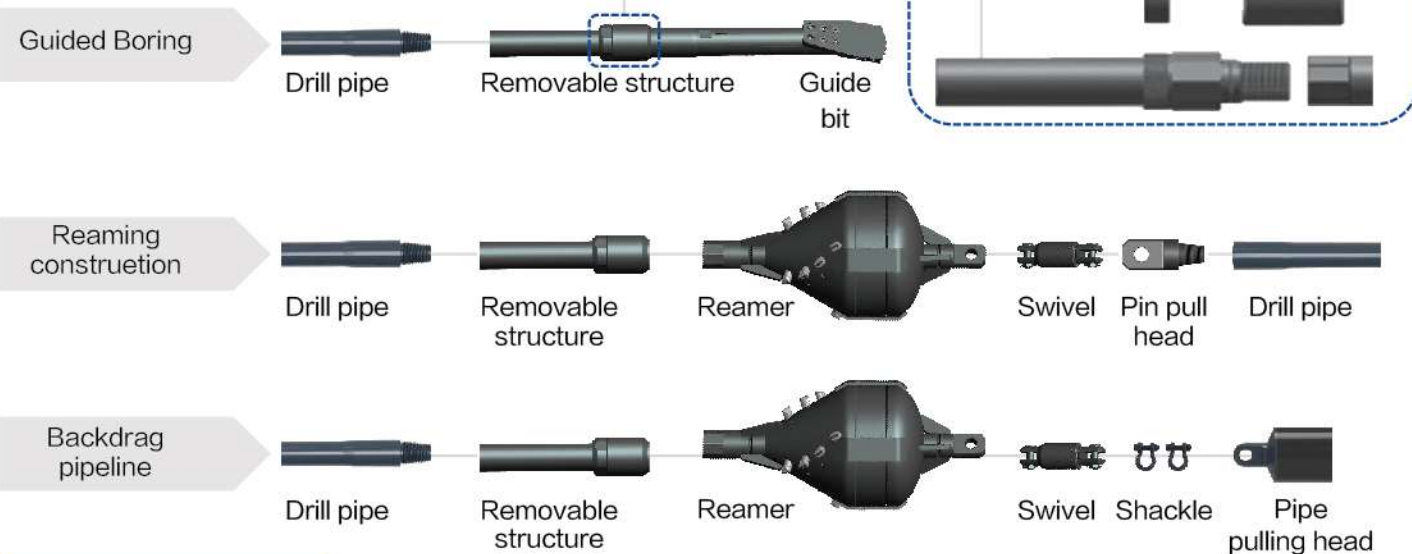


- Large-tonnage drilling rig is mainly used for large-diameter and long-distance pipeline construction. The comprehensive digital display and adjustment of the working parameters of the equipment and the multi-directional automation and intelligent design can provide reliable guarantee for the construction safety. A single engine can be used for construction to save fuel and reduce operating costs.

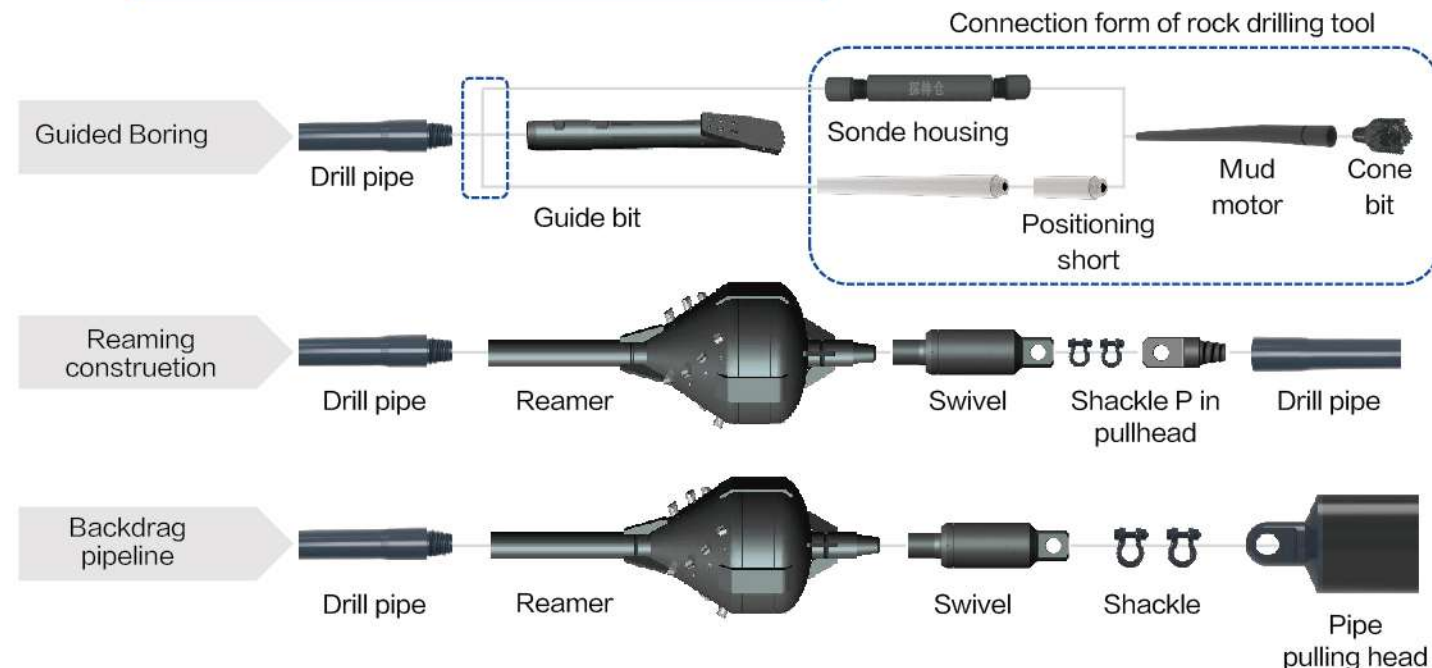
Main technical parameters		Unit	XZ2200F	XZ3000F	XZ5000F	XZ6600
Engine		/	Cummins	Cummins	Cummins	Volvo
Rated power		kW	2 × 242	2 × 264	2 × 294	2 × 565
Power head	Max thrust-pull force	kN	2200	3000	5000	6600
	Max thrust-pull speed	m/min	50	45	35	32
	Torque	kN · m	85000	100000	160000	210000
	Max rotation speed	r/min	105	95	90	90
Mud pump	Max flow	L/min	Additional	Additional	Additional	Additional
	Max pressure	MPa	10	10/20	10	20
Crane	Lifting weight	t	3.2	3.2	3.2	5
	Lifting moment	t · m	6.4	6.4	12.5	12.5
Recommended drill pipe		mm × m	Φ 127 × 6	Φ 127/Φ 140 × 6	Φ 168/Φ 194 × 9.6	Φ 168/Φ 194 × 9.6
Max entry angle		°	18	18	16	16
Max back reaming diameter		mm	Φ 1500	Φ 1500	Φ 1600	Φ 2000
Weight		t	35	35	60	73
Outline dimensions		mm	11700 × 3230 × 3250	13700 × 3230 × 3450	17500 × 3200 × 3650	19000 × 3200 × 3600
Optional items	Semi-automatic gripper		○	○	○	○
	Direct-drive mud pump		○(950)	○(950)	▲	▲
	Split operation room		○	○	●	●
	Wireless walking		●	●	●	●
	Remote truck crane		○	○	○	○

● standard ○ optional ▲ not available

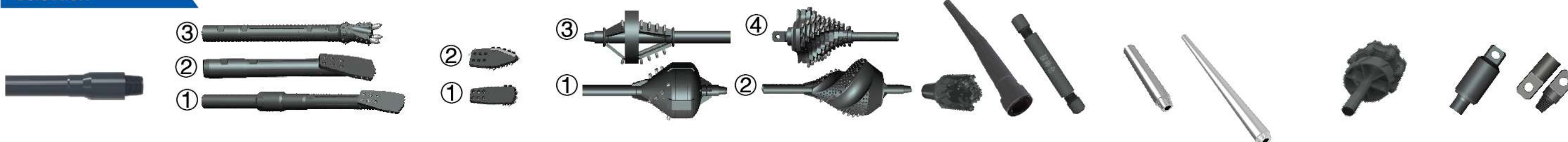
52、60、73、83



89、102、114、127、140、168、194、219



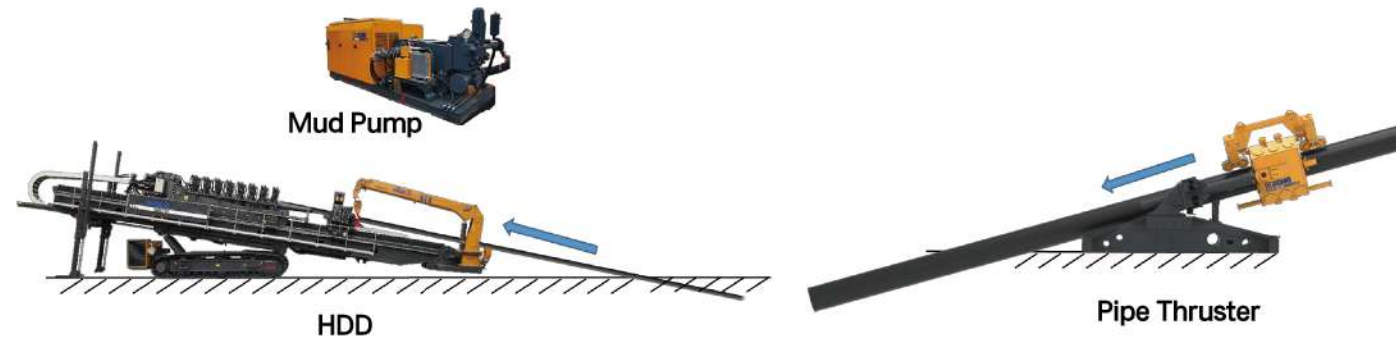
Selection



Drill pipe			Soil layer										Rock layer							Swivel	Pulling head
			Sonde bit (sonde housing)			Guide plate		Reamer					Rock drilling tools								
Spec	Integral	Welded	Demountable ①	Direct-Connected ②	Eagle Claw ③	Ordinary ①	Wear-Resistant ②	Demountable type	Direct-connected	Form	Model	Cone bit	Mud motor	Sonde housing	Positioning short	Nonmagnetic drill collar	Cone reamer	Pulling	Model		
52	●	○	●	○	—	●	—	●	○	①Barrel ②Fluted ③Cutting ④Overlap	Φ200mm-Φ500mm	—	—	—	—	—	—	10 t	52		
60	●	○	●	○	○	●	○	●	○		Φ200mm-Φ600mm	—	—	—	—	—	—	—	20 t	60	
73	●	○	●	○	○	●	○	●	○		Φ200mm-Φ800mm	—	—	—	—	—	—	—	35 t	73	
83	●	○	●	○	○	●	○	●	○		Φ300mm-Φ900mm	—	—	—	—	—	—	—	45 t	83	
89	○	●	—	●	○	●	○	—	●		Φ300mm-Φ1000mm	152	102	108	127	127	127	Φ300mm-Φ800mm	60 t	89	
102	—	●	—	●	○	●	○	—	●		Φ300mm-Φ1200mm	165	120	127	127	127	127	Φ300mm-Φ900mm	80 t	102	
114	—	●	—	●	—	●	○	—	●		Φ450mm-Φ1200mm	216	165	172	172	172	172	Φ350mm-Φ1050mm	100 t	114	
127	—	●	—	●	—	●	○	—	●		Φ450mm-Φ1400mm	216	165	172	172	172	172	Φ350mm-Φ1150mm	200 t	127	
140	—	●	—	●	—	●	—	—	●		Φ500mm-Φ1600mm	241	172	172	172	172	172	Φ450mm-Φ1550mm	350 t	140	
168	—	●	—	●	—	●	—	—	●		Φ500mm-Φ1600mm	241	172	172	172	172	172	Φ450mm-Φ1550mm	550 t	168	
194	—	●	—	●	—	●	—	—	●		Φ500mm-Φ1650mm	270	203	—	203	203	203	Φ500mm-Φ1550mm	800 t	194	
219	—	●	—	●	—	●	—	—	●		Φ500mm-Φ1650mm	270	203	—	203	203	203	Φ500mm-Φ1550mm	800 t	219	

● recommend ○ optional — not available

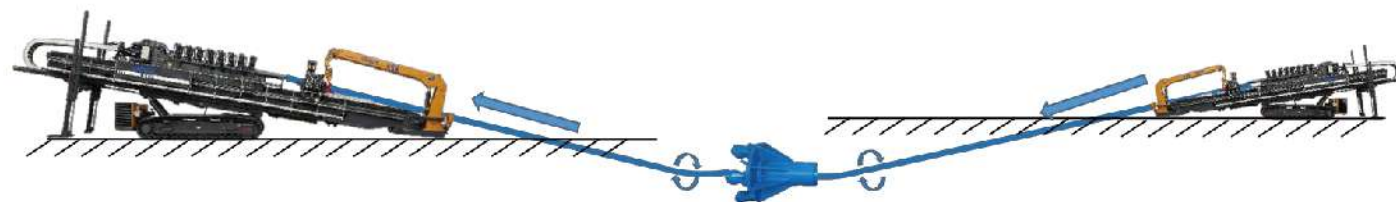
● Push-pull Combined Construction by HDD and Pipe Thruster



● Drilling Through by Two HDDs



● Two HDDs Synchronized Reaming



Mud Associated Equipment

HDD Model	Mud pump	Mud mixing	Mud tank	Mud desanding
XZ130FS、XZ180E、XZ230E、XZ280E	—	XMM 2	—	—
XZ320E、XZ380E、XZ450PLUS	—	XMM 3	—	—
XZ500E、XZ600F、XZ800F	—	XMM 5	—	XMD 50
XZ1000F、XZ1350F、XZ1600F、XZ2000F	—	XMME 10	XAT 20	XMD 100
XZ2400F、XZ3000F、XZ4000F、XZ5000F、XZ6000F	≥2000L/min	XMME 20	2 × XAT 20	XMD 150
XZ8000、XZ13600	≥2800L/min	XMME 20	3 × XAT 20	2 × XMD 220/200



Characteristics

- 1.Large flow triplex plunger mud pump is used for stepless flow regulation.
- 2.Remote control: start and stop, flow regulation, status detection and display, fault diagnosis.
- 3.It can be used with XZ series large-tonnage directional drilling to realize automatic start and stop or one-button idle speed and reduce mud waste.
- 4.Data storage function: store mud pressure, flow and consumption for data tracing.

Item	Unit	XMP2000	XMP2000E	XMP2800	XMP3000E
Engine (or motor) model	/	Cummins QSL8.9-C360	WR-510	Cummins QSZ13-C475	WR-510
Rated power	kW	264/2100	250/2000	354/1900	250/2000
Max. flow/pressure	L/min / MPa	2000/4.6	2000/4	3200/4.8	3200/4.8
Max. pressure	MPa	10	10	10.5	10.5
Operating Weight	t	10.5	5.5	16	8
Overall dimension	mm	5100 × 2200 × 2150	2500 × 2200 × 2150	6150 × 2850 × 2150	3150 × 2450 × 2150



Characteristics

- 1.Large flow high pressure plunger pump, fast construction speed and high efficiency.
- 2.There are many holding cylinders with large force and adjustable clamping force.
- 3.Digital display system, visual display of pushing or pulling force.
- 4.The maximum thrust and pullback force can be preset to prevent pipeline overload.

Item		Unit	XTG3500	XTG6000
Engine		—	Cummins QSL8.9	SDECSC9DF300G3
Rated power		kW	264	221 × 2
Maximum propulsive force		kN	3500	6000
Propulsive speed		m/min	5	5
Maximum retraction force		kN	3500	6000
Pullback speed		m/min	5.3	8
Route or distance of travel		mm	3000	3500
Construction angle		°	0–15	0–15
Clamp	Cylinder diameter	mm	220	220
	Cylinder stroke	mm	100	100
	Applicable pipe diameter	mm	813、914、1016	813、914、1016、1219、1422
	Clamp size	mm	4000 × 3000 × 2400	4000 × 3400 × 2610
	Clamp weight	t	18	25
Lampstand	Overall dimension	mm	6000 × 3300 × 2200	6340 × 3770 × 2280
	Weight	t	17	20
Power station	Overall dimension	mm	2840 × 2200 × 2100	3030 × 2438 × 2591
	Weight	t	6.5	12
Operation room	Overall dimension	mm	3000 × 2438 × 2591	3000 × 2438 × 2591
	Weight	t	2.5	2.5



XMM3



XMM5



XMME20



XAT20

Electric

Characteristics

- 1.XMM series mud mixing equipment is composed of quick mixing device, pump set, manifold and tank body, and has the function of quickly mixing bentonite mud to hydrate it.
- 2.Small mud mixing equipment is driven by gasoline engine, which can work independently and is convenient to use; Large-scale products are driven by motors, with strong power and high efficiency.
- 3.It is recommended to select corresponding products according to the requirements of different slurry storage capacity and slurry mixing cycle speed.

Item	Unit	XMM2	XMM3	XMM5	XMME10	XMME20	XAT20
Storage capacity	m³	2	3	5	10	20	20
Circulation volume	m³/h	50	70	80	100	120	—
Installed power	kW	4.8	9.6	4.8+9.6	18	45	15
Main pump power	kW	4.8	9.6	9.6	15	30	—
Mixing motor	kW	—	—	—	3	7.5 × 2	7.5 × 2
Outlet size	mm	Φ76	Φ76	Φ76	Φ100	Φ100	Φ150
Operating Weight	t	0.3	0.45	1.35	3.4	4.1	3.7
Overall dimension	mm	2600 × 1250 × 1600	3500 × 1250 × 1700	3000 × 1800 × 2100	4800 × 2300 × 2500	6000 × 2300 × 2550	6400 × 2300 × 2550
Remarks	—	gasoline engine			electric motor		Only for storage



XZ13600, Oilpipeline, Φ 422mm, 700m



XZ11000, Oilpipeline, Φ 1219mm, 1757m



XZ6600, Niger and Benin, Oil pipeline



XZ5060, Oil pipeline, Φ 1016mm, 1300m



XZ5000, Malaysia, Power pipeline



XZ11000, Natural gas pipeline, Φ 1016mm, 2867m



XZ6600, Water supply pipeline, Φ 813mm, 3000m



XZ6600, Oilpipeline, Φ 813mm, 2327m



XZ6600, India, Gas pipeline



XZ2600E, Φ 813mm, Power pipeline



XZ3600, Korea, Water supply pipeline



XZ450Plus, Vietnam, Power pipeline



XZ280E, Russia, Power pipeline



XZ320E, Philippines, Telecom pipeline



XZ430E, Malaysia, Supply pipeline



XZ1350, Thailand, Telecom pipeline



XZ430E, Egypt, Telecom pipeline



XZ420E, Indonesia, Telecom pipeline



XZ430E, Laos, Sewage pipeline



XZ4055, USA, Telecom pipeline